SORAMITSU 7 YEARS ソラミツ

A MEMO TO THE SORA COMMUNITY

DECEMBER 2023

This document accompanies the invoice sent to SORA for the services provided by SORAMITSU.

December 2023 was an incredible month of accomplishments. The SORA Integrated Plan continues to be the roadmap for the SORA Network development pipeline, and the progress rate has steadily advanced.

This memo will provide a perspective on the activities for each track, a description of the development activities specific to this month, and the total amount of hours presented in invoice number 205051 served by SORAMITSU Helvetia to the SORA Community.

1   SORA (Substrate) – 4,282hrs

Work this month is spread across the Substrate bridge, Multi-EVM Bridge, Orderbook implementation, ALT Technology, documentation, and Kensetsu.

Work is ongoing to connect the Substrate bridge to a sovereign state from the SORA standalone network. This includes adapting the bridge to connect to a non-parachain Substrate-based network.

The Order book's code base was improved and optimised before its release, and the implementation was updated based on QA and community feedback. It has been released to the production environment, albeit inactive, and support was provided for developing a front-end UI on the client application.

The Kensetsu feature has been actively worked on, and plenty of research on over-collateralised lending platforms has been undertaken, especially regarding risks and mitigation strategies to avoid cascading liquidation. At the same time, the system analysis and architecture design progresses. A foundation for the first release logic has been implemented, and collaboration with product design and front end is ongoing to ensure an intuitive user experience.

Aggregate Liquidity Technology implementation is actively worked on as research for an architecture upgrade, including XYK and XST liquidity source initialisation and technical debt work.

The Multi-EVM bridge is back in focus, with the architecture actively being worked on.

Documentation on the Order Book infrastructure outline is in progress, and Kensetsu documentation is in progress.

Moonbeam Alphanet testing is in progress to subsequently open an HRMP channel.

Finally, ongoing project management activities include SORA Governance and Technical committee support, quality assurance ops and development support to external teams building on the SORA network.

On the mobile side, two releases were worked on this month:

- **3.8.0 Released.** Introduces Demeter Farm pool visualisation and provides several fixes and improvements.
- **3.8.1 In Progress.** Will introduce Demeter Farming management such as staking/ unstaking and liquidity staking reward claiming.

As well as project management activities, systems analysis, UI/UX improvements and quality assurance.

1.1 SORA Backend

- Order book:
    - Improved and optimized the codebase for the release;
    - Released Order book to the production environment;
    - Updated implementation based on QA and community feedback;
    - Supported client application team to implement the UI.
- Kensetsu:
    - Market research on overcollateralized lending platforms;
    - System analysis and architecture design;
    - Implemented the foundation of the logic for the first release;
    - Synchronizing with the Product Design and front-end teams to ensure the implementation is user-oriented;
    - Research risks and mitigation strategies for the platform (cascading liquidation mechanism).
- Aggregate Liquidity Technology (ALT):
    - Researching solutions for an architecture upgrade;
    - Working on technical debt;
    - Working on liquidity sources (XYK, XST) initialisation.
- Multi-EVM bridge:
    - Working on the bridge architecture.
- Substrate bridge to sovereign state:
    - Adapting the implementation of the Substrate bridge to the Kusama parachain to connect to a non-parachain Substrate-based network.
- PolkadotSDK update to version to 1.2.0;
- Alphanet setup to open an HRMP channel with Moonbeam;
- Codebase maintenance and improvements;
- Project management activities (daily meetings, planning, retrospectives);
- Quality Assurance and testing activities, development of automated tests.

1.2 Mobile App

- Implemented and released (6th December) 3.8.0 – Demeter Farming:
  - Display Demeter farms available on the network;
  - Various fixes and improvements.
- Implemented version 3.8.1 – Demeter Farming: Phase 2
  - Stake / Unstake your liquidity on Demeter farms;
  - Claim your rewards accumulated from staking liquidity on farms.
- Project management activities (daily meetings, planning, retrospectives);
- Product Design activities;
- QA and testing activities;
- Communicated and synchronized with external partners for SORA Card: Phase 2.

2 Substrate (PSWAP) – 920 hrs

Polkaswap has received a substantial amount of ongoing improvements, including:

- XOR Validator Staking finalization (improvements + bug fixes);
- Subsquid indexer finalization;
- Asset owner page development;
- Order book improvements;
- Kensetsu high-level TypeScript API design;
- Quality of life improvements, such as:
  - Users' CERES fiat selection is now stored in local storage, maintaining the setting after page refreshing;
  - Improved styling and validation for the address book, ensuring a seamless experience;
  - Improved MAX button behaviour during hidden balance;
  - Chart Min & Max Values Calculation: Calculations for min and max values have been refined for each chart, improving their positioning;
  - Network Fees Management: Enhanced management of network fees for a more streamlined user experience;
  - Fixed token price for ALL timeframes of some tokens (XOR, XST, etc);
  - Enhanced clarity and presentation for ADAR receive transaction details;
  - Collapse menu button. A convenient collapse menu button has been added for improved navigation;
  - Editable fiat ($) values. Users can now quickly edit the fiat ($) value across all Polkaswap pages, enhancing user flexibility.
- Hashi Bridge improvements;
  - MAX Button Calculations for HASHI Substrate Bridge: Calculations for the MAX button in the HASHI Substrate Bridge have been refined for a more accurate representation;
  - Parachain Fees Calculation for HASHI Substrate Bridge: Improved calculation of parachain fees in the HASHI Substrate Bridge for increased precision;
  - HASHI Ethereum Bridge Improvements: Better estimation of network fees and transaction processing for improved functionality;
  - The Hashi Bridge retry button behaviour has been improved for smoother operations.
- Product Design activities;
- Project management activities (daily meetings, planning, retrospectives);
- Quality Assurance and testing activities.

3 DevOps and Security – 465 hrs

The work done this month by DevOps covers the SORA network as well as its underlying infrastructure. Here are more details:

3.1 SORA Blockchain

- New alerting rules for:
  - SORA network
  - Bridges
  - Network suspicious activity
- New Bridge security bot;
- Performed Infrastructure maintenance for all VMs;
- Improved CI/CD pipeline;
- Improve CD for Substrate <> Substrate bridge environment;
- Improved Subsquid CD;
- In progress:
  - 90% Alphanet parachain dev environment
  - 99% Polkadot parachain environment
  - 10% Trivy reports integration to DefectDojo

3.2 Parachain

- Improved CI/CD pipeline;
- SAST reports integrated to DefectDojo;
- New version released and deployed.

3.3 Polkaswap

- Improved CI/CD pipeline:
  - New alerts
  - New automation scripts
- Working on fault tolerance;
- Improved monitoring bot;
- SAST reports integrated to DefectDojo.

3.4 Mobile Clients

- Updated CI/CD pipeline:
  - New autotests
  - Library improved
- SAST implemented;
- SAST reports integrated to DefectDojo.

3.5 SORA Card

- Implemented cross-repository issue synchronization;
- SAST reports integrated to DefectDojo;
- Working on Infrastructure hardening.

4 Education – 907 hr

Educational operations this month included:

4.1 SORA

- Ecosystem Update;
- Documenting business description and technical implementation for the initiatives (Substrate bridge, Order book);
- Ongoing wiki Improvements;
- Daily social media posts (covering key features, testnet/mainnet releases, highlighting USPs, and entertainment);
- SORA Kusama parachain governance enhancements communications;
- SORA Blockchain release 'Fixes and Improvements' communications;
- Articles:
  - SORA End of Year Review.
- Product-Marketing collaboration on the marketing campaign for the Order book;
- Relationship management with parachain teams to open HRMP channels;
- Internal education and communication about the vision and roadmap for SORA;
- Continuous maintenance and documentation of the implementation and vision of SORA in the wiki;
- SORA evangelisation at industry events and conferences.

4.2 Polkaswap

- Ecosystem Update;
- End-of-Year Review;
- Daily social media posts (covering key features, testnet/mainnet releases, highlighting USPs, and entertainment;
- Polkaswap '2024 Roadmap Survey' communications.

- Polkadot dApps DEXes AMA;
- Attending high-impact in-person events and business to government (B2G) expenses.

5   Total Hours – 6,574 hr

Additionally, invoice 205050, attached, pertains to cloud server costs for December 2023.

All SORA Ecosystem Memo payments provide collateral to the Token Bonding Curve.

Your ongoing support is greatly appreciated, and we look forward to continuing to serve you.

Sincerely,

SORAMITSU Helvetia AG

Supporting concept updates are presented in the SORA Ecosystem Updates published on December 15 and Polkaswap updates on December 15, respectively.

SORAMITSU Helvetia AG
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Invoice

Invoice for	**Payable to**	**Issue Date**	**Invoice Number**
SORA.org	SORAMITSU Helvetia AG	10 January 2024	205050
	Project	**Due Date**	
	Cloud Service Provider Cost for December 2023	17 January 2024	

Description	**Amount (USD)**
Cloud Service Provider Cost for December 2023	12,271.00

Subtotal	**$12,271.00**
Tax	**0,00**

Total Amount Due   USD $12,271.00

* Payment can be made in equivalent TBCD, at the market rate.

Wallet Address (TBCD):   **cnUd1TMjVo8Z3MkEQu5yEymafj14nCHQr74PDz21XAmXvWmKd**

Thank you very much for your business. We are looking forward to serving you again.

SORAMITSU Helvetia AG
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Invoice

Invoice for	**Payable to**	**Issue Date**	**Invoice Number**
SORA.org	SORAMITSU Helvetia AG	10 January 2024	205051
	Project	**Due Date**	
	Development Cost for December 2023	17 January 2024	

Description	Quantity (Work-Hours)	Discounted Unit Price (USD)	Amount (USD)
SORA (Backend, Mobile Apps)	4,282	299.00	1,280,318.00
Polkaswap (Backend, Frontend)	920	299.00	275,080.00
DevOps and Security Review	465	299.00	139,035.00
Education	907	299.00	271,193.00
Subtotal	**6,574.00**	**$299.00**	**$1,965,626.00**

	Subtotal	**$1,965,626.00**
	Tax	**$0.00**

Amount Due
USD $1,965,626.00

Grand Total Due (Invoice 205050 & 205051)
USD $1,977,897.00

* Payment can be made in equivalent TBCD, at the market rate.

Wallet Address (TBCD):   cnUd1TMjVo8Z3MkEQu5yEymafj14nCHQr74PDz21XAmXvWmKd

Thank you very much for your business. We are looking forward to serving you again.

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SORAMITSU
7 YEARS   2016-2023   ソラミツ